

What is claimed is:

1. An apparatus, comprising:

a blood pump;

a main inflow port operably connected to the
blood pump;

a main outflow port operably connected to
the blood pump; and

a supplemental port operably connected to
the blood pump.

2. The apparatus of claim 1, wherein the
supplemental port is a supplemental outflow port.

3. The apparatus of claim 2, wherein the
supplemental outflow port is connected to a catheter
adapted to supply blood to perfuse a vein or artery.

4. The apparatus of claim 2, wherein the
supplemental outflow port is connected to a cannula
adapted to be positioned in the patient's aorta.

5. The apparatus of claim 1, wherein the
supplemental port is a supplemental inflow port.

6. The apparatus of claim 5, wherein the
supplemental inflow port is connected to a catheter
connected to a supply of blood.

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5 7. The apparatus of claim 6, wherein the supply of blood is connected to a catheter adapted to be positioned in the body to remove blood from the patient.

8. The apparatus of claim 1, further comprising a valve at the supplemental port.

10 9. The apparatus of claim 1, wherein the main inflow port is connected to a cannula adapted to be positioned in a patient's atrium or ventricle.

15 10. The apparatus of claim 1, wherein the main outflow port is connected to a cannula to be positioned in a patient's aorta.

20 11. The apparatus of claim 1, wherein the main outflow port is connected to a cannula to be positioned within a patient's artery.

12. The apparatus of claim 1, wherein the blood pump is connected to an oxygenator.

25 13. An apparatus, comprising:

a blood pump including a main inflow port,
a main outflow port, and a supplemental outflow
port; and

5 a perfusion catheter connected to the
supplemental outflow port, the catheter adapted
to supply blood to an artery on the heart during
a bypass operation on that artery.

14. A method, comprising the steps of:

- 10 (a) operably connecting a blood pump to a
patient;
(b) pumping blood from one part of the
heart to another part of the heart;
and
15 (c) supplying blood through a supplemental
port on the blood pump to an artery on
the heart during a bypass operation to
that artery.

20 15. The method of claim 14, wherein the blood
passes through an oxygenator.

16. The method of claim 14, wherein the blood
is supplied from the supplemental port to the artery
25 through a catheter.

17. The method of claim 14, wherein the blood is supplied from the supplemental port to the artery through a cannula.

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